

SWIMMING

POOL

IMPROVEMENTS FOR

BOBBY BONDS PARK

2060 UNIVERSITY AVENUE
RIVERSIDE, CALIFORNIA 92507

PREPARED FOR

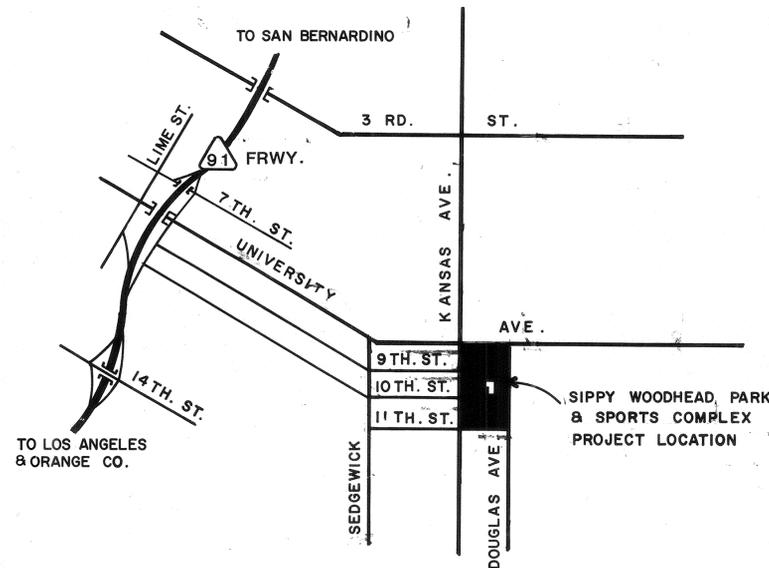
CITY OF RIVERSIDE PARK & RECREATION DEPARTMENT
3900 MAIN STREET, RIVERSIDE, CALIFORNIA 92522

CONSULTANTS

Structural Engineer
HILLMAN, BIDDISON & LOEVENGUTH
1541 Wilshire Boulevard, Suite 508
Los Angeles, Ca 90015
(213) 413-5313

Electrical Engineer
MALCOLM LEWIS ASSOCIATES
15500 Rockfield Boulevard, Suite 7C
Irvine, CA 92718
(714) 768-6911

VICINITY MAP



DODDAS BROS. MAP NO. 7
RIVERSIDE COUNTY BOOK
GRID COORDINATES E-6

SHEET INDEX

| SHEET INDEX | |
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| SP/A2 | POOL & DECK PLAN (DEMOLITION) |
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APPROVALS

Dee W. Bachman
Dee W. Bachman, Director of Park and Recreation
12/23/87 Date

Terry Nielson
Terry Nielson, Park Superintendent
12/25/87 Date

Rory Reese
Rory Reese, Recreation Superintendent
10-23-87 Date

Robert L. Johnson
Robert L. Johnson, Park Project Coordinator
10-23-87 Date

| REVISIONS | BY |
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| A6-BUILT | RB |
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Solar
Hydro

SIPPY WOODHEAD POOL
Prepared for
City of Riverside Park & Recreation Department
3900 Main Street, Riverside, CA 92522

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SHEET 50 OF 65

DRAWN
ANNE MCCOWAN
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DATE
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SCALE
NONE
JOB NO.
86.113
SHEET
TITLE SHEET
OF T-1 SHEETS

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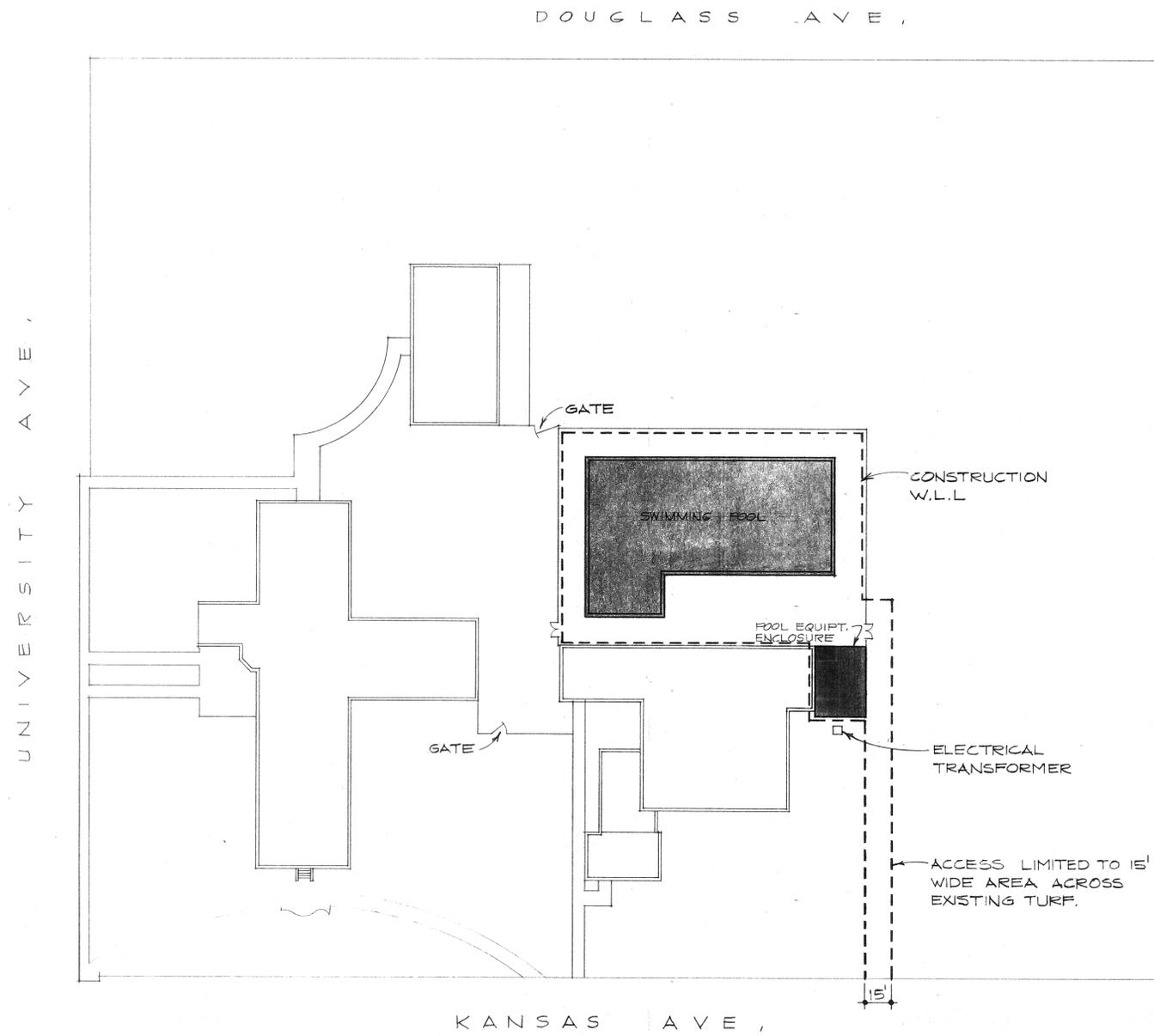
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SHEET 51 OF 65

| |
|-----------------------------|
| DRAWN A. C. ROQUE |
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| JOB NO. 86.113 |
| SHEET SITE PLAN |
| SP/A-1 |
| OF SHEETS |



ADDITIVE ITEMS

- REFER TO THE BID PROPOSAL DOCUMENTS FOR THE FOLLOWING ITEMS:
1. INSTALL AUTOMATIC FLOW CONTROL VALVE (ITEM #9 ON SHEET SP/A-4).
 2. PREPARE SURFACES AND REPLASTER SURGE CHAMBER COMPLETE.
 3. REFURBISH THREE DIVING TOWERS (ITEMS #1 & #2 ON SHEET SP/A-4) INCLUDING:
 - A. SANDBLAST AND PAINT TOWERS.
 - B. REPAIR OR RELACE ADJUSTABLE FULCRUMS AS REQUIRED.
 - C. FACTORY REFURBISH DIVING BOARDS.

SITE PLAN

SCALE : 1" = 50'-0"



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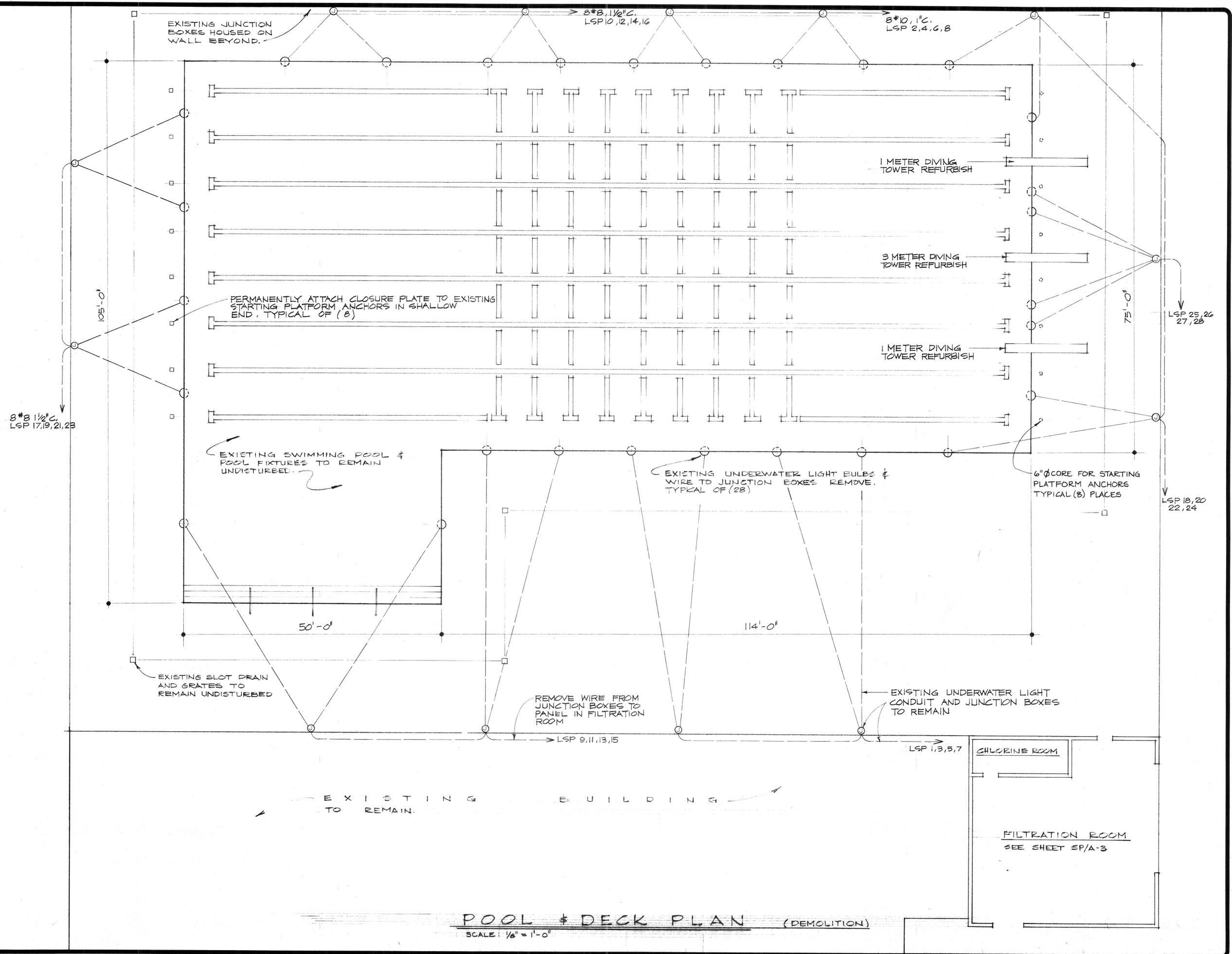
Hydro Solar Filtration

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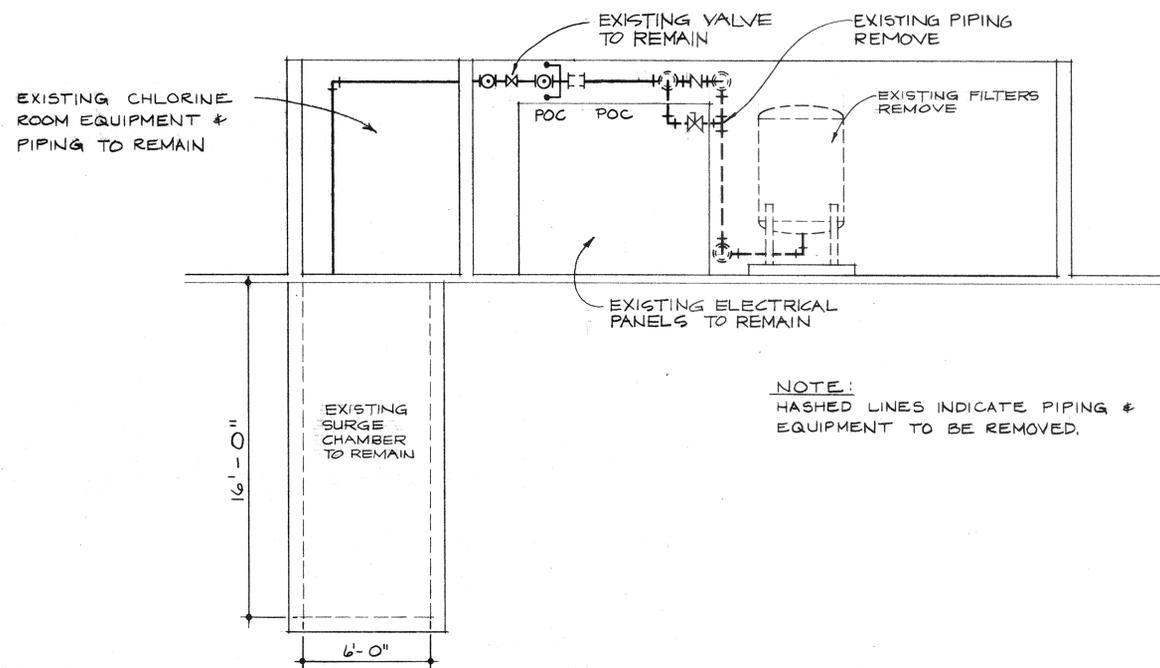
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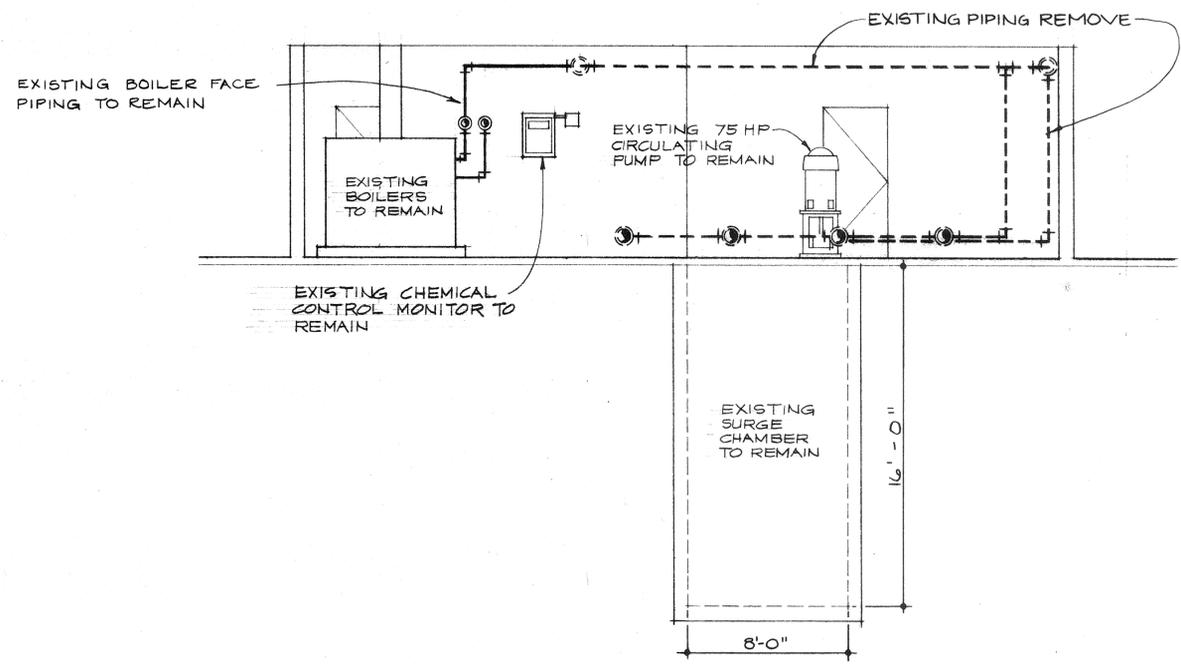
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| DRAWN | S.T. GARCIA |
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| SCALE | AS SHOWN |
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| SHEET | POOL & DECK PLAN (DEMOLITION) |
| SP/A-2 | OF 2 SHEETS |



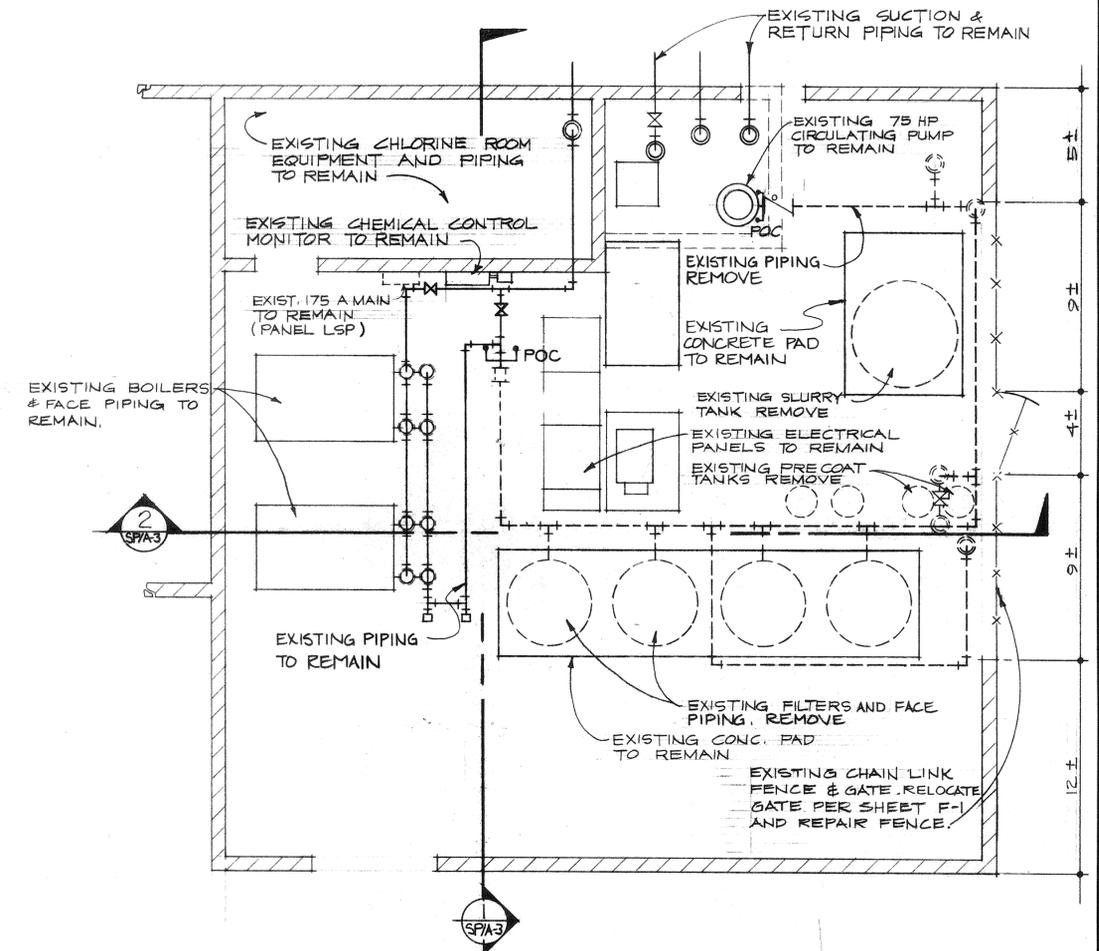
POOL & DECK PLAN (DEMOLITION)
 SCALE: 1/8" = 1'-0"



SECTION 1
SP/A-3
SCALE: 1/4" = 1'-0"



SECTION 2
SP/A-3
SCALE: 1/4" = 1'-0"



FILTRATION ROOM PLAN
SCALE: 1/4" = 1'-0" (EXISTING CONDITION DEMOLITION)

DEMOLITION NOTES

1. VERIFY EXISTING CONDITIONS AND ACCURACY OF DRAWING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS TO EXECUTIVE ENGINEER FOR INSTRUCTIONS BEFORE STARTING WORK.
2. PROTECT EXISTING WORK WHICH IS TO REMAIN IN PLACE OR IS TO BE REUSED PER SPECIFICATION REQUIREMENTS.
3. VERIFY THE WATERTIGHT INTEGRITY OF ALL UNDERWATER LIGHT NICHES AND CONDUIT. CONFIRM GFI PROTECTION OF LIGHTS AND PROVIDE IF NECESSARY.
4. VERIFY THE INTEGRITY OF ALL WORK TO REMAIN.
5. ADDITIONAL WORK DETERMINED NECESSARY DURING CONSTRUCTION SHALL BE APPROVED BY THE CITY AND EXECUTIVE ENGINEER.
6. ALL BURIED SUCTION AND RETURN PIPING TO THE POOL IS TO REMAIN. CONNECT NEW PVC PIPING AT POINTS OF CONNECTION SHOWN IN FILTRATION ROOM.
7. ALL DECK EQUIPMENT AND MECHANICAL EQUIPMENT REMOVED AND NOT REUSED SHALL REMAIN PROPERTY OF THE CITY AND SHALL BE DELIVERED, BY THE CONTRACTOR, TO THE MULBERRY YARD AT 3880 MULBERRY, RIVERSIDE, CA. AT THE CITY'S OPTION. ANY EQUIPMENT THAT THE CITY ELECTS NOT TO SALVAGE SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

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SIPPY WOODHEAD POOL

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| SCALE | AS SHOWN |
| JOB NO. | 86.113 |
| SHEET | FILTRATION ROOM PLAN (DEMOLITION) |
| OF SHEETS | SP/A-3 |

EQUIPMENT SCHEDULE

| ITEM NO. | LOCATION | DET. | QTY. | DESCRIPTION | MFGR. |
|----------|-----------------------------------|------------|------|--|--|
| 1 | DECK EQUIPMENT | 1 SPA-5 | 2 | ONE METER DIVING TOWER - SANDBLAST AND PAINT TOWER, AND FACTORY REFURBISH ADJUSTABLE FULCRUM AND BOARD. | ARCADIA AIR PRODUCTS 70-231-400 |
| 2 | | 2 SPA-5 | 1 | THREE METER DIVING TOWER - SANDBLAST AND PAINT TOWER, AND FACTORY REFURBISH ADJUSTABLE FULCRUMS AND BOARD. | ARCADIA AIR PRODUCTS 70-231-300 |
| 3 | ← DETAIL NUMBER ← SHEET NUMBER | 1 SPA-6 | 8 | STARTING PLATFORM ANCHORS - BRONZE ANCHORS AND VANDAL PROOF CLOSURE PLATES. | KDI PARAGON 22124 |
| 4 | ← ITEM NUMBER ← SHEET NUMBER | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | FILTRATION EQUIPMENT | 7 F-1 | 2 | FILTER SYSTEM - FULLY AUTOMATED PERMANENT MEDIA HI-RATE SAND FILTER WITH (5) TANKS AND 8" FACE PIPING. PROVIDE INTERLOCK SO BOTH BANKS CANNOT BACKWASH AT THE SAME TIME. | EPD MODEL 501 |
| 8 | | 8 F-1 | 1 | PUMP - 75 H.P. | EXISTING |
| 9 | | 9 F-1 | 1 | FLOW CONTROL VALVE - STAINLESS STEEL BODY WITH ELASTOMETRIC CONTROL MEMBER, AND AUTOMATIC PILOT CONTROL. 12" SIZE. | ROLL SEAL 12-S-S7-L-15 140-RF-1850 GPM |
| 10 | | 10 F-1 | 1 | FLOWMETER - SELF POWERED WITH ANALOG READOUT, 0-5000 GPM SCALE RANGE FOR 12" PIPE. | SIGNET MK 509 |
| 11 | | 11 F-1 | 1 | FLWSENSOR - PADDLEWHEEL TYPE WITH 1-50 FT/SEC. RANGE, AND SADDLE FOR 12" PIPE. | SIGNET MK 515 |
| 12 | | 12 F-1 | 2 | THERMOMETER - STAINLESS STEEL CASE AND STEM, 30°-130° F RANGE, MOUNTED IN POOL RETURN LINE. | LETRO SL-1D |
| 13 | | 1 F-2 | 1 | SUMP PUMP - 1/3 HP SUBMERSIBLE WITH MERCURY FLOAT SWITCH, 115 V, 9.0 A, 60 HZ, 1Ø. | HYDROMATIC SM-20A |
| 14 | | | | | |
| 15 | | | | | |
| 16 | CHEMICAL TREATMENT | 3 F-2 | 1 | CHLORINE DETECTOR - DETECTS 1 PPM OF CHLORINE WITH INTEGRAL FAN FOR POSITIVE SAMPLING OF AIR. WALL MOUNTED 115 V, 0.4 A. | WALLACE & TIERNAN #50-125 |
| 17 | | 17 F-1 | 1 | CHLORINE ALARM HORN - LOW CURRENT, HIGH DECIBEL HORN OR SIREN. 120 V, 0.28A. | EDWARDS SIGNALING DEVICES #5520-N5 |
| 18 | | 18 F-1 | 1 | CHLORINE STROBE BEACON - HIGH INTENSITY STROBES RED LENS, 80 DOUBLE FLASHES PER MINUTE, WITH FLANGE FOR MOUNTING ON 1" PIPE. 120V, 0.40A. | EDWARDS SIGNALING DEVICES #57R-AY |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | ELECTRICAL FIXTURES | 3 SPA-6 | 28 | UNDERWATER LIGHTS - STAINLESS STEEL LIGHT AND FACE RING, 500 WATT WITH 100' CORD. | WADE DESIGN SERIES ONE |
| 23 | | | | | |
| 24 | | | | SAFETY SIGNS - SEE SPECIFICATIONS SECTION 13154. | |
| 25 | | | | | |
| 26 | | | | | |

NOTE:
ALL ITEMS LISTED IN THE EQUIPMENT SCHEDULE ARE NEW UNLESS STATED OTHERWISE. THIS IS A LIST OF MAJOR EQUIPMENT ONLY. ADDITIONAL ITEMS REQUIRED TO COMPLETE THIS WORK SHALL BE PROVIDED BY THE CONTRACTOR.

GENERAL NOTES

FILTRATION

- FILTER TANK ASSEMBLIES BEAR THE NATIONAL SANITATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE OF 20 G.P.M. PER SQ. FT. OF FILTER AREA.
- FILTER TANKS WITH EXTERNAL AND INTERNAL ACCESSORIES; MANUFACTURER TO PROVIDE GUARANTEES AND WARRANTIES AND SPARE PARTS NECESSARY FOR STANDARD FILTER OPERATION AND MAINTENANCE.
- FILTER MANUFACTURER TO CERTIFY FILTER MEDIA.
- POST ON WALL FILTER OPERATING INSTRUCTIONS WITH VALVE OPERATING SEQUENCES CHART, MOUNT IN WATER RESISTANT / WATERTIGHT CONTAINER + 48" ABOVE FLOOR NEAR FILTERS, NUMBER VALVES TO CORRESPOND WITH INSTRUCTIONS ON VALVE SEQUENCING PROCEDURE PER SPECIFICATIONS.

PLUMBING

- SANDBLAST ALL FERROUS METAL TO WHITE METAL INCLUDING FACE OF FLANGES AND COAT PER SPECIFICATIONS.
- SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
- INSTALL ALL PIPING PER SPECIFICATION REQUIREMENTS.
- IDENTIFY ALL FILTER ROOM PIPING WITH PAINTING CODE AND ARROWS PER SPECIFICATIONS.
- ALL BUTTERFLY VALVES UP TO 6" LEVER OPERATED, ALL BUTTERFLY VALVES OVER 6" GEAR OPERATED, USE VALVES RATED FOR 150 P.S.I. AND 200 °F.
- POOL CIRCULATION PIPING AND ALL P.V.C. FITTINGS SHALL BE SCHEDULE 80 P.V.C. INJECTION MOLDED AND SOLVENT WELDED. 12" Ø FITTINGS SHALL BE AN APPROVED FABRICATED P.V.C. FITTING.
- ALL VALVES 1/2" THRU 3" I.P.S. "TRUE UNION" STYLE SOCKET WITH REPLACEABLE TEFLON SEAT INJECTION MOLDED AND SOLVENT WELDED.

PUMPS

- PROVIDE SUMP PUMP WITH A ON/OFF SWITCH WALL MOUNTED ABOVE GRADE.

CHEMICAL

- LIQUID CHLORINE AND ACID LINES: SECURE TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN RUNS, PLACE CHECK VALVE AND SHUT OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
- CONTRACTOR PROVIDE A LABELED SWITCH OUTSIDE OF CHLORINATION ROOM WHICH WILL TURN ON THE EXHAUST FAN & LIGHT OF THE CHLORINATION ROOM, LABEL "TURN ON BEFORE ENTERING".
- ALL COMPONENTS OF THE EXISTING AUTOMATED CONTROL SYSTEM SHALL BE RELOCATED AS REQUIRED AND RECONNECTED TO THE PIPING.
- CONTRACTOR SHALL VERIFY PROPER OPERATION OF THE AUTOMATED CHEMICAL CONTROL SYSTEM.
- THE CHEMICAL CONTROL MONITOR SHALL SAMPLE WATER AFTER FILTERS AND BEFORE ANY CHEMICAL INJECTION, RETURN TO SUCTION SIDE OF PUMP.

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SIPPY WOODHEAD POOL
Prepared for
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3900 Main Street, Riverside, CA 92522

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SHEET 54 OF 65

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86.113

SHEET
**EQUIPMENT SCHE
and
GENERAL NOTES**

OF SP/A-4 SHEETS

POOL STATISTICS

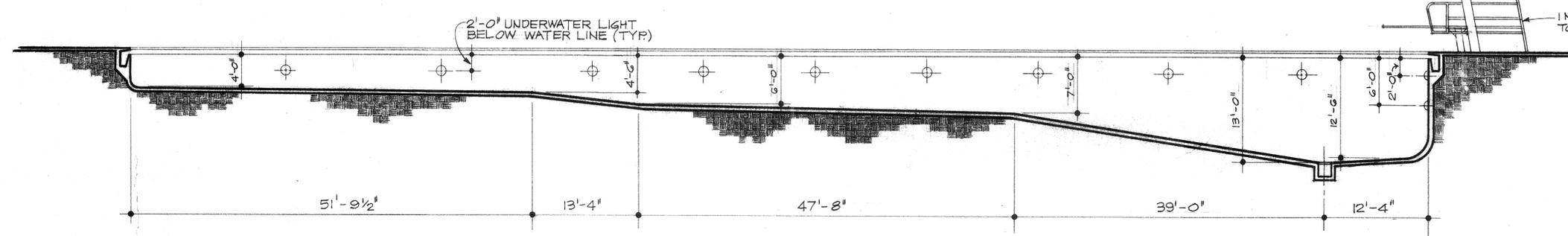
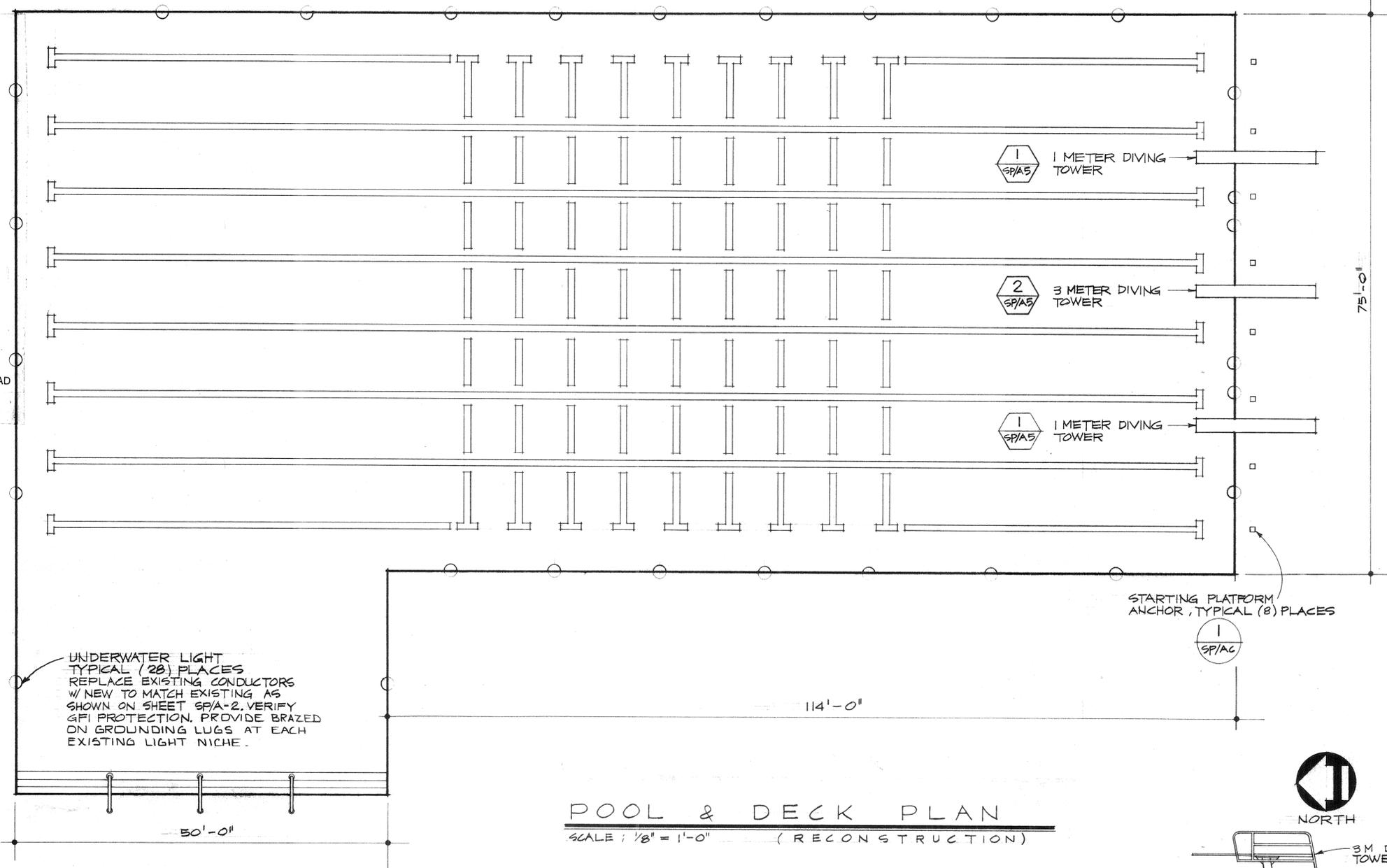
DIMENSIONS
 OVERALL LENGTH 164' (50 METERS)
 OVERALL WIDTH 75'
 PERIMETER 538'
 SURFACE AREA 13,800 SQ FT
 DEPTHS 4' - 13'
 VOLUME 88,900 CU FT
 TOTAL GALLONS 665,000 GAL
 BATHING LOAD - 1/20 SQ FT 690

LIGHTING
 NUMBER OF LIGHTS 28
 WATTAGE PER LIGHT 500 W
 WATTAGE PER SQ FT 1 W
 WATTAGE TOTAL 14,000 W

HEATING
 INPUT CAPACITY EXISTING

FILTERS
 FILTER AREA 135 SQ FT
 FILTER FLOW RATE 1,850 GPM
 TURNOVER UNDER 6 HRS
 FILTER MEDIA HI-RATE SAND
 BACKWASH RATE 185 GPM
 BACKWASH VALVE AUTOMATIC

PUMP
 FILTER PUMP 1,850 GPM @ 110' OF HEAD
 75 HP



POOL & DECK PLAN
 SCALE: 1/8" = 1'-0" (RECONSTRUCTION)

POOL & DECK SECTION
 SCALE: 1/8" = 1'-0" (RECONSTRUCTION)

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| SHEET | POOL & DECK PLAN AND SECTIONS |
| OF | SP/A-5 SHEETS |

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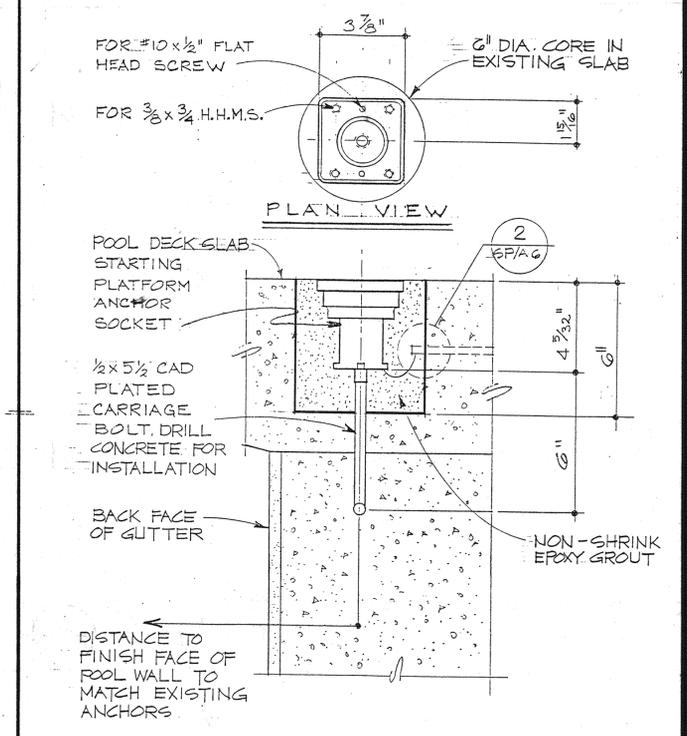
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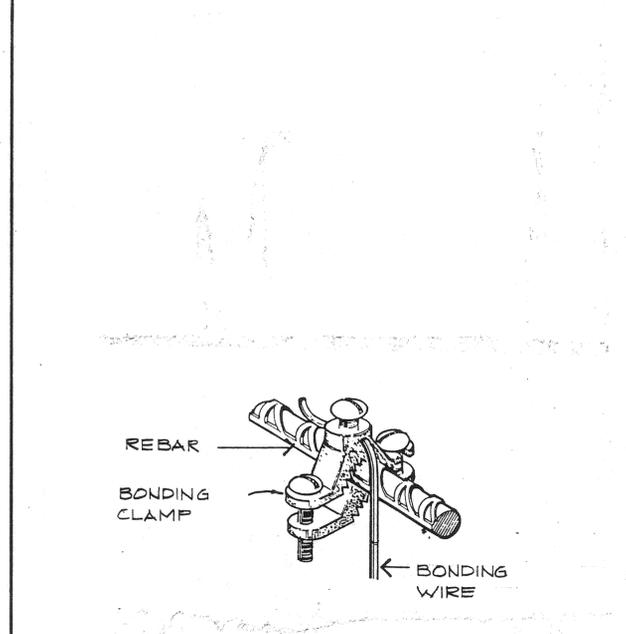
5 DETAIL



NOTE:
 ANCHOR MUST BE BONDED TO EXISTING REBAR, CHIP TO EXPOSE REBAR AS REQUIRED, LEAVE EXPOSED EDGE OF CORE SMOOTH AND UNBROKEN.

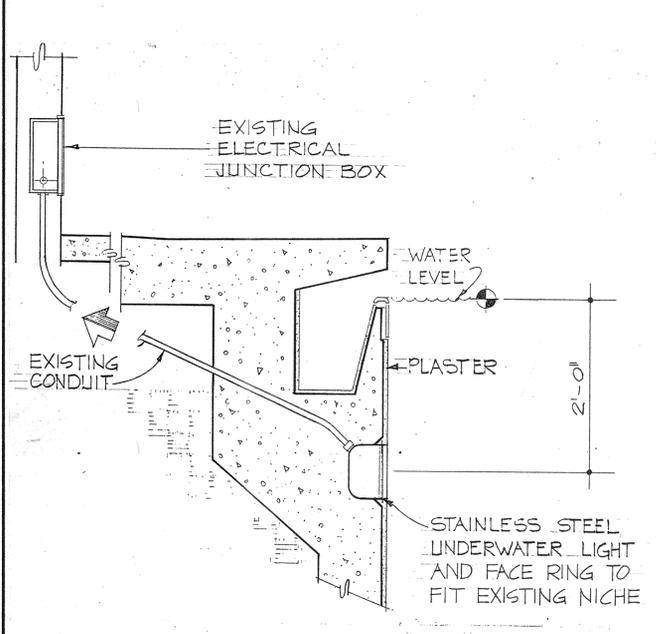
1 DETAIL @ STARTING PLATFORM ANCHOR
 SPA-6 SCALE: NONE

6 DETAIL



2 DETAIL @ BONDING CLAMP
 SPA-6 SCALE: NONE

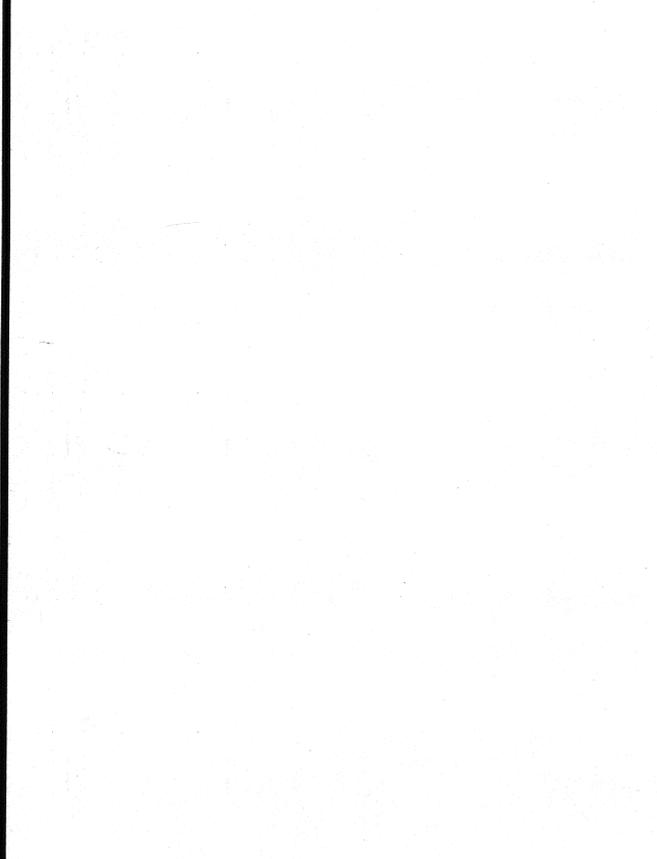
7 DETAIL



NOTE:
 1. PROVIDE SUFFICIENT CORD WRAP TO ALLOW BULB CHANGE ON THE DECK 2' BACK FROM EDGE.
 2. VERIFY WATERTIGHT INTEGRITY OF NICHE AND CONDUIT.
 3. PROVIDE BRAZED ON GROUNDING LUGS AT EACH LIGHT NICHE.

3 DETAIL @ UNDERWATER LIGHT
 SPA-6 SCALE: NONE

8 DETAIL



4 DETAIL

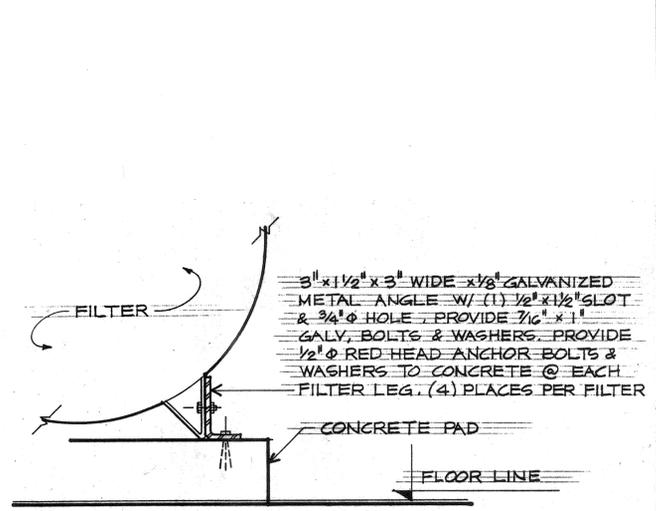
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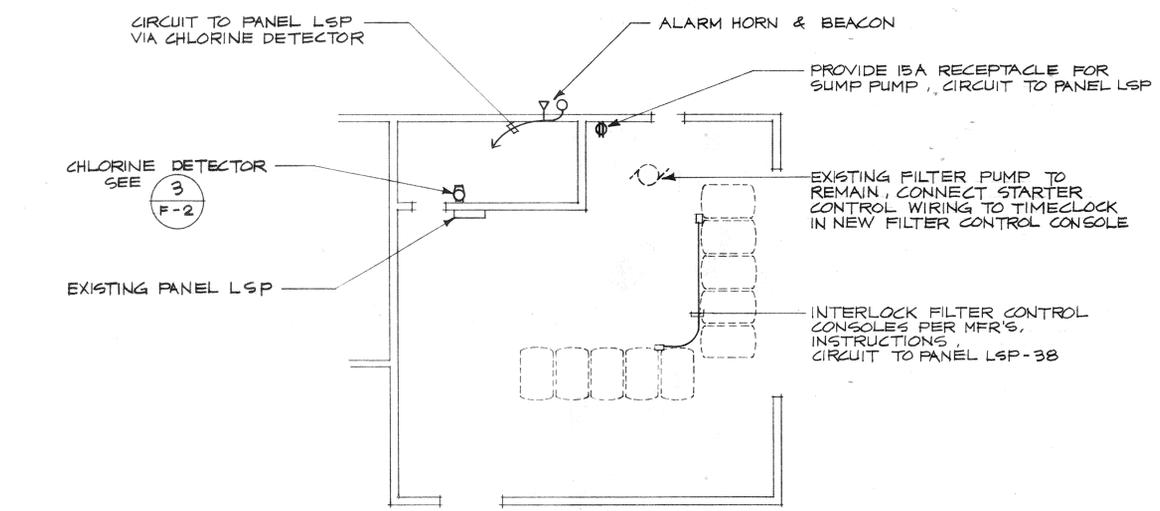
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DETAILS
 OF **F-2** SHEETS

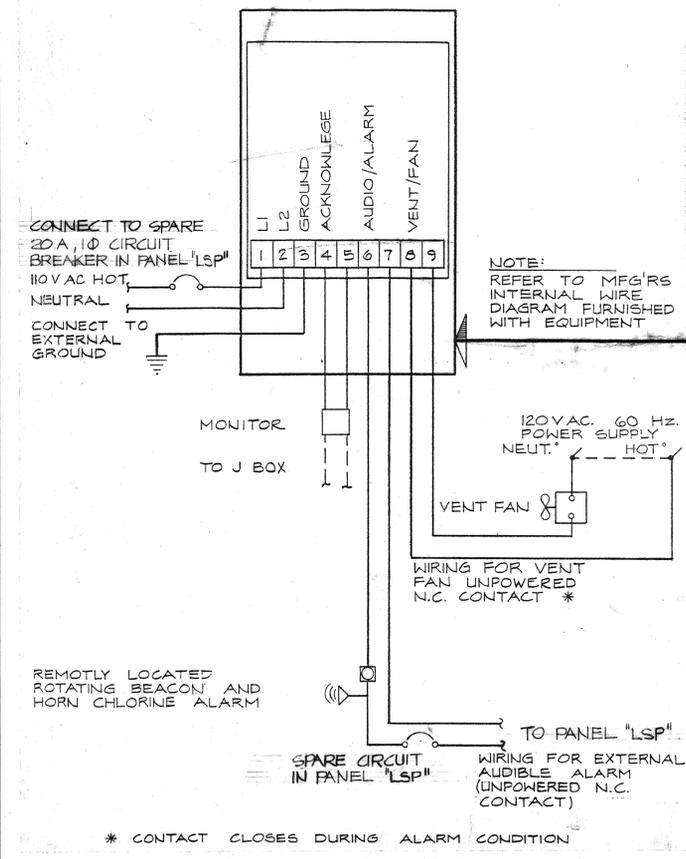


5
 F-2
DETAIL @ FILTER ANCHOR
 SCALE: NONE



4
 F-2
FILTRATION ROOM ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"

DETAIL



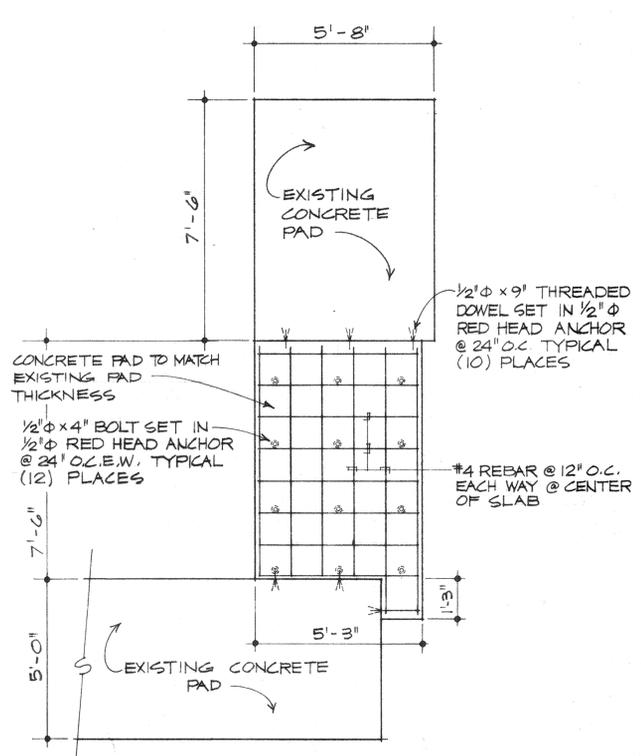
SEQUENCE OF OPERATIONS
CHLORINE ALARM CONDITION

1. EXHAUST FAN, LIGHT, HORN AND BEACON LIGHT ARE INTERLOCKED IN "ON" POSITION TURN "OFF" WITH KEY SWITCH.
2. EXHAUST FAN INTERLOCKED WITH LIGHTS IN CHLORINE ROOM ANYTIME LIGHTS COME ON.
3. 110 V CIRCUIT FOR ACCESSORY ITEMS (HORN, BEACON, LIGHT(S) TERMINALS 6 & 9 ACT AS SWITCHES ONLY.

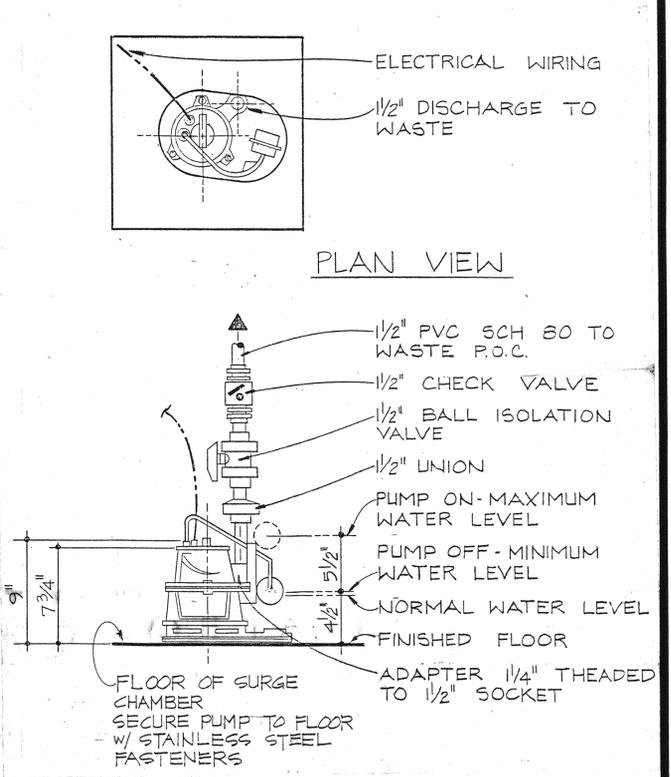
NOTE:

1. CHLORINE DETECTOR WALL MOUNTED AT 5'-0" ABOVE FINISH FLOOR EXTEND 1" Ø SK 80 P.V.C. PIPE TO A POINT 2" ABOVE THE FINISH FLOOR. SUPPORT BOTTOM OF 1" Ø PIPE WITH BRACKET TO WALL PIPE NOT SHOWN FOR CLARITY.
2. MONITOR IS NORMALLY OPEN PUSH BUTTON WITH INDICATOR LIGHT.

3
 F-2
DETAIL @ CHLORINE DETECTOR
 SCALE: NONE



2
 F-2
DETAIL @ EQUIPMENT PAD
 SCALE: 3/8" = 1'-0"



1
 F-2
DETAIL @ SUMP PUMP
 SCALE: NONE